

Tingey, Christopher

From: Bierschenk, Arnold
Sent: Wednesday, February 14, 2018 2:44 PM
To: Tingey, Christopher
Subject: FW: Authorization to inject
Attachments: Plugging records & WO.pdf; EPA _NBU MAP.pdf

From: Erwin Pino [mailto:erwin.pino@chaparralenergy.com]
Sent: Friday, May 10, 2013 10:06 AM
To: Todd, Robert <Todd.Robert@epa.gov>; Bierschenk, Arnold <bierschenk.arnold@epa.gov>
Cc: Harvill, Jana <Harvill.Jana@epa.gov>
Subject: RE: Authorization to inject

Robert,

Attached are the copies of the old plugging records on the NBU #10-5, NBU #10-6, NBU # 4-3 & NBU #16-14 and the form 139 (Well Work) on the NBU #4-3A.

NBU #9-W23

- **NBU #10-5.** P&A in 1964- Spotted cement at the bottom & filled hole with heavy mud to surface. To be in compliance with the Area Permit, we constructed a monitor well (MW # 3) very close to this well. In addition to that, we will drill and construct two more monitor wells (within 50 feet) on the top intersections of that quarter section (Tract 10) which will allow to determine rapidly if anomaly has occurred.

NBU #9-W27

- **NBU #4-3.** P&A in 1925- Lost hole @ 904'. Filled hole with mud and dirt to surface. Management decided to drill a new producer well (NBU #4-3A) to replace this one. To comply with Area Permit Conditions, we will drill a Monitor well (# 21) very close to this P&A well in the coming days.
- **NBU #4-3A.** Oil Producer Active. In June 2012, ran a new 5-1/2" casing. For details see the attached form 139 (workover).

NBU #10-W21 & NBU #10-W25

- **NBU #10-6.** P&A in 1964- Spotted cement at the bottom & filled hole with heavy mud & pumped cement from 120' to surface. There is a monitor well (MW # 3) very close to this well, so we comply with the permit conditions.
- **NBU #16-14.** P&A in 1964- Spotted cement at the bottom & filled hole with heavy mud & pumped cement from 140' to surface. There are two monitor wells (MW # 2 & MW# 3) close to this well, so we comply with the permit conditions.

NBU #10-W23 & NBU #10-W27

- **NBU #10-8.** P&A in 1964- Spotted cement at the bottom & filled hole with heavy mud & pumped cement from 120' to surface. Regarding this old plugged well, I had a conversation with the superintendent and foreman about it and both told me that a few years ago they tried to re-enter some old plugged wells without success; they didn't get pass 200' because those wells were plugged not only with mud, but they also threw down the holes wood, drilling lines , bits, etc, so it makes very difficult to re-enter these wells. However, After we drilled the remaining monitor wells on phase I, we will have one monitor well in each intersection (within 50 feet) of the tract 10 which it would be sufficient to determine any problem in that quarter section.

On the other hand, the final approval of the NBU #33-W41 was put on hold because the NBU #33-w27 (AOR) wasn't plugged properly. However, this injection well has been plugged and abandoned adequately and so I am sending a copy of the final plugging procedure of it. Please review this plugging report to complete the final approval on the NBU #33-W41.

I also attached a NBU map showing the monitor wells already drilled in a portion of phase I and the monitoring wells to be drilled very soon in the remaining Phase I and Phase II; this map will help you to have a better view of the network of monitoring wells in that area.

Please let me know if you have any questions or concern.

Thanks,

Erwin Pino

Regulatory Engineer
Chaparral Energy, L.L.C.
701 Cedar Lake Blvd.
Oklahoma City, Oklahoma 73114
Direct Phone (405) 426-4081
Direct Fax (405) 425-8681

From: Todd, Robert [mailto:Todd.Robert@epa.gov]
Sent: Thursday, May 09, 2013 10:22 AM
To: Bierschenk, Arnold
Cc: Harvill, Jana; Erwin Pino
Subject: RE: Authorization to inject

NBU 9-W21 and NBU 9-W25 both passed the AoR review.

NBU 9-W23 has inadequate plugging on NBU 10-5. Summary shows open hole below surface and no background documents provided for review

NBU 9-W27 shows inadequate plugging on NBU 4-3 in summary, however background material indicates 4-3 was converted to oil producer in 2012, company needs to clarify status on 4-3 and 4-3A

NBU 10-W21 show inadequate plugging and records on NBU 10-5, NBU 10-6, NBU 16-14

NBU 10-W23 shows inadequate plugging on NBU 10-8, however AB approved 16-W25 for injection with similar concerns about this particular well based on monitoring well location.

NBU 10-W25 shows inadequate plugging and records on NBU 4-3 (oil well or plugged?) NBU 10-5, NBU 10-6

NBU 10-W27 shows inadequate plugging on NBU 10-8, however AB approved 16-W25 for injection with similar concerns about this particular well based on monitoring well location.

Arnold : let me know if you need more.

Erwin: if you have more info on the above wells please let me and Jana know.

Robert

From: Bierschenk, Arnold

Sent: Thursday, May 09, 2013 9:06 AM

To: Todd, Robert

Subject: FW: Authorization to inject

FYI

If you don't have any of the well information below, let Erwin know.

From: Erwin Pino [<mailto:erwin.pino@chaparralenergy.com>]

Sent: Monday, April 29, 2013 9:12 AM

To: Bierschenk, Arnold

Subject: [POSSIBLE SPAM] RE: Authorization to inject

Good Morning Arnold,

I hope you had a good weekend.

I want to let you know that we haven't started injecting CO2 yet because we still working on the Coffeyville pipeline and compressors, but we are almost done there.

The EOR group are re-scheduled to initiate CO2 injection on May,5th. However, it could change, so I will keep you inform if any change occur.

On the other hand, I would like to confirm that you have received the following individual packages:

	<u>Sent to the EPA</u>
- NBU #9-W21	02/05/2013
- NBU #9-W23	02/05/2013
- NBU #9-W25	02/13/2013
- NBU #9-W27	02/13/2013
- NBU #10-W21	02/26/2013
- NBU #10-W23	03/27/2013
- NBU #10-W25	02/26/2013
- NBU #10-W27	02/14/2013

Attached is the map of the North Burbank Unit showing the next 3 rows of patterns that are going to be ready to inject CO₂ in two or three months. Please let me know if you are missing well data or any other information on these wells above mentioned.

Thanks,

Erwin Pino

Regulatory Engineer
Chaparral Energy, L.L.C.
701 Cedar Lake Blvd.
Oklahoma City, Oklahoma 73114
Direct Phone (405) 426-4081
Direct Fax (405) 425-8681

From: Bierschenk, Arnold [<mailto:bierschenk.arnold@epa.gov>]
Sent: Friday, April 26, 2013 3:16 PM
To: Erwin Pino
Cc: Todd, Robert; Harvill, Jana; VanWyk, Ron
Subject: Authorization to inject

Authorization to Inject Under Permit No. 06S1264P6273

The following wells have been reviewed and determined to be compliant with permit conditions of the above permit.

NBU 25-W21 **NBU 17-W25**

Corrective action on inadequate wells in the AOR appear to meet the permit conditions outlined in the referenced area permit. Wells are authorized to inject up to the maximum pressures once all permit conditions are satisfied.

Prior to injection the well must pass a mechanical integrity test, and all final permit conditions of the referenced permit will remain in effect until the well is plugged and abandoned or the permit is terminated.